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NEW SOUTH WALES

# STATISTICAL REGISTER



## MINING

# 1967

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DEPUTY COMMONWEALTH STATISTICIAN

AND

GOVERNMENT STATISTICIAN OF NEW SOUTH WALES

#### **ROUNDING OF FIGURES**

Where figures in this publication have been rounded, any discrepancies between the totals shown and the sums of the component items are due to rounding.

#### **DECIMAL CURRENCY**

In the Australian decimal currency system, which was introduced on 14th February, 1966, the monetary unit is the dollar (\$), divided into 100 cents. Two dollars are equal in value to £1, the monetary unit in the former currency system. All values in this publication have been converted to the equivalent amounts in decimal currency.



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**MINING**

**1967**

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## PREFACE

This issue of the *Mining Part of the Statistical Register of New South Wales* contains statistics for 1967 and earlier years.

The statistics given in this publication should be read in conjunction with the *Official Year Book of New South Wales*. For the most recent statistics, the reader should refer to other publications of the Bureau, particularly the *Statistical Bulletin* and the *Monthly Summary of Business Statistics*.

My thanks are tendered to the responsible officers of the various State and Commonwealth authorities and to others who have supplied information, often at considerable trouble.

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and  
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Bureau of Census and Statistics,  
Sydney.  
31st March, 1969.

# MINING

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## MINING STATISTICS

### EXPLANATORY NOTES

1. For statistical purposes, the mining industries are defined to cover not only the actual mining or quarrying operations, but also crushing and ore dressing operations carried out in treatment works situated at or near a mine or quarry. The screening and washing of coal are included in mining activity when undertaken at a mine or at plants centrally situated to serve a number of mines in the locality. However, the refining of metals and the processing of raw materials (in the manufacture of such products as coke, bricks, and portland cement) are classified as factory activity, whether or not the works are situated in the locality of the mine or quarry.
  2. In accordance with this definition, the minerals produced are recorded in the form in which they are despatched from the working. For example, a metallic mineral is recorded as an ore if untreated before despatch, and as a concentrate if ore dressing operations are undertaken at or about the mine.
  3. The minerals are classified into four major groups:
    - metallic minerals;
    - fuel minerals;
    - non-metallic minerals; and
    - construction materials.
  4. In Tables I to 6, each mine or quarry has been classified to an industry in accordance with its principal product, and all employment, products, and other particulars of the mine or quarry have been attributed to that industry. The value of output shown in these Tables for a particular industry or group of industries is therefore the value of all the products of the mines and quarries classified to that industry or group.
  5. Oil search operations are not regarded as a mining activity.
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## No. 1. Summary of Mining Operations\*, 1961 to 1967

Year	No. of Mines Worked	Average Number of Persons Employed †	Salaries and Wages Paid ‡	Fixed Assets of Mines		Materials and Fuel Used	Explosives Sold to Employees	Value of Output
				Additions and Replacements During Year	Value at End of Year ¶			
			\$ thous.	\$ thous.	\$ thous.	\$ thous.	\$ thous.	\$ thous.
<b>Silver-Lead-Zinc Mining</b>								
1961	14	5,186	16,759.3	2,060.5	38,133.9	10,531.3	208.3	35,413.0
1962	11	4,826	14,810.0	1,842.4	38,348.7	8,798.7	188.1	35,109.9
1963	9	4,350	15,017.6	1,121.3	37,664.4	9,027.5	183.6	54,486.8
1964	13	4,391	17,576.7	1,874.0	37,670.3	9,691.4	181.3	87,990.4
1965	13	4,630	21,166.5	3,209.2	38,815.0	10,854.7	208.8	98,060.7
1966	12	4,815	21,246.4	4,728.2	40,928.6	11,418.4	195.6	81,405.0
1967	17	4,877	21,933.4	7,143.6	42,515.4	12,806.3	182.4	73,820.0
<b>Other Metallic Mining</b>								
1961	173	1,081	2,060.0	1,225.8	4,042.6	2,094.2	...	6,826.4
1962	152	1,322	2,616.7	5,347.4	9,314.1	2,082.5	...	7,037.5
1963	131	1,510	3,674.3	6,122.2	13,762.0	2,935.6	...	11,855.1
1964	123	1,713	4,427.1	8,411.6	21,025.0	2,994.2	32.4	13,812.6
1965	109	1,893	5,294.5	6,953.2	24,530.1	3,777.6	18.8	20,906.1
1966	123	2,253	6,906.3	9,218.2	29,866.3	5,371.6	16.2	28,451.8
1967	123	2,385	7,540.5	6,237.6	29,511.8	7,209.6	19.0	34,390.0
<b>Total, Metallic Mining</b>								
1961	187	6,267	18,819.3	3,286.3	42,176.5	12,625.6	208.3	42,239.4
1962	163	6,148	17,426.7	7,189.7	47,662.8	10,881.2	188.1	42,147.4
1963	140	5,860	18,691.9	7,243.5	51,426.4	11,963.1	183.6	66,341.9
1964	136	6,104	22,003.7	10,285.6	58,695.3	12,685.6	213.7	101,803.0
1965	122	6,523	26,461.0	10,162.4	63,345.1	14,632.3	227.6	118,966.8
1966	135	7,068	28,152.7	13,946.4	70,794.9	16,790.0	211.7	109,856.8
1967	140	7,262	29,473.9	13,381.2	72,027.2	20,015.9	201.4	108,210.0
<b>Coal Mining</b>								
1961	107	12,512	38,806.5	17,692.2	83,616.4	20,621.0	36.4	90,224.8
1962	100	11,998	37,611.7	18,422.0	86,762.6	22,088.6	30.0	94,067.7§
1963	94	11,534	37,208.8	15,164.9	85,541.6	21,845.0	26.6	90,837.8
1964	94	11,367	39,735.2	13,564.9	83,774.1	22,832.7	21.2	97,251.7
1965	91	11,678	43,735.4	21,639.9	86,217.5	25,360.5	20.7	112,103.3
1966	92	11,983	46,613.4	27,881.2	88,032.8	28,382.4	13.1	117,625.8
1967	92	12,176	51,254.9	26,175.8	93,536.0	31,356.5	9.2	126,445.9
<b>Non-metallic Mining (Excluding Clays)</b>								
1961	170	810	1,516.6	960.5	2,848.9	1,055.8	...	4,520.3
1962	175	813	1,411.4	233.4	2,734.5	1,009.8	...	4,250.6
1963	230	835	1,434.2	413.5	2,668.1	1,049.8	...	4,530.0
1964	245	819	1,588.6	240.7	2,474.4	1,071.8	...	4,762.5
1965	308	993	1,586.5	328.0	2,294.8	1,242.1	...	5,188.5
1966	462	1,315	1,452.4	487.3	2,331.1	1,094.6	...	5,464.4
1967	463	1,347	1,556.8	403.8	2,210.2	1,213.4	...	6,078.6
<b>Total*</b>								
1961	464	19,589	59,142.3	21,939.1	128,641.9	34,302.4	244.7	136,984.5
1962	438	18,959	56,449.9	25,845.1	137,160.0	33,979.6	218.1	140,465.6§
1963	464	18,229	57,334.9	22,821.9	139,636.1	34,857.9	210.2	161,709.7
1964	475	18,290	63,327.6	24,091.2	144,943.7	36,590.1	234.9	203,817.2
1965	521	19,194	71,782.9	32,130.3	151,857.4	41,234.9	248.3	236,258.6
1966	689	20,366	76,218.5	42,314.9	161,158.8	46,267.0	224.9	232,947.0
1967	695	20,785	82,285.7	39,960.8	167,773.4	52,585.8	210.6	240,734.5

\* Excludes clay pits and quarries winning construction materials, which in 1967 had an average employment of 423 and 1,872 respectively, and a value of output of \$3,259,700 and \$31,935,300, respectively.

† For coal mining, average during whole year; for other mining, average during period of operation. Includes working proprietors, but excludes fossickers.

‡ Before deducting the value of explosives sold to employees; excludes drawings by working proprietors.

¶ Depreciated book values.

§ Not strictly comparable with earlier years because of a revised method of valuation at certain coal mines (which increased values for 1962 by approximately \$4,000,000).

|| Revised.

## No. 2. Value of Materials and Fuel Used in Mines\*, 1961 to 1967

Year and Class of Mining	Fuel and Power Used					Stores and Materials Used			
	Coal	Oil and Petrol	Electricity	Other	Total Fuel and Power	Mining Timber	Explosives †	Other	Total Stores and Materials
	\$ thous.	\$ thous.	\$ thous.	\$ thous.	\$ thous.	\$ thous.	\$ thous.	\$ thous.	\$ thous.
1961	295.6	569.8	6,574.6	448.0	7,888.0	4,482.0	1,745.7	20,186.6	26,414.4
1962	244.7	510.7	6,839.7	424.8	8,019.9	4,650.7	1,537.0	19,772.0	25,959.7
1963	211.1	613.9	7,301.9	444.8	8,571.7	4,550.6	1,394.3	20,341.3	26,286.3
1964	159.6	540.6	7,665.8	401.1	8,767.1	4,535.9	1,249.2	22,037.8	27,823.0
1965	98.3	646.2	7,998.9	419.3	9,162.7	5,116.4	1,331.5	25,624.2	32,072.2
1966	79.9	753.9	8,546.4	444.1	9,824.4	5,078.6	1,265.8	30,098.2	36,442.5
1967—									
Silver-Lead-Zinc	...	72.2	2,006.2	389.0	2,467.4	2,041.7	173.0	8,124.2	10,339.0
Other Metallic	6.1	402.4	1,729.2	11.1	2,148.9	14.7	62.9	4,983.2	5,060.7
Coal	49.9	214.8	5,212.8	9.8	5,487.3	3,450.2	916.9	21,502.1	25,869.2
Non-metallic	5.5	104.4	106.5	0.8	217.2	2.8	162.2	831.2	996.2
Total	61.6	793.8	9,054.6	410.6	10,320.7	5,509.4	1,315.0	35,440.7	42,265.1

\* See note \*, Table 1.

† Excludes value of explosives sold to employees. See Table 1.

No. 3. Fixed Assets of Mines\*, 1962 to 1967

Year	Additions and Replacements During the Year				Value at End of Year†			
	Land and Buildings	Machinery and Plant	Mine Development	Total	Land and Buildings	Machinery and Plant	Mine Development	Total
	\$ thous.	\$ thous.	\$ thous.	\$ thous.	\$ thous.	\$ thous.	\$ thous.	\$ thous.
Silver-Lead-Zinc Mining								
1962	57.5	1,375.4	409.5	1,842.4	2,903.3	9,134.6	26,310.7	38,348.7
1963	120.0	1,001.0	0.3	1,121.3	2,718.2	8,766.2	26,180.0	37,664.4
1964	306.3	1,561.5	6.2	1,874.0	2,822.8	8,887.3	25,960.2	37,670.3
1965	700.1	2,470.0	39.1	3,209.2	3,277.5	9,704.1	25,833.4	38,815.0
1966	238.6	4,031.2	458.3	4,728.2	3,204.6	11,546.1	26,177.9	40,928.6
1967	828.8	5,352.8	962.0	7,143.6	3,669.3	14,136.9	24,709.2	42,515.4
Other Metallic Mining								
1962	471.0	4,356.8	519.6	5,347.4	1,319.6	7,041.6	952.9	9,314.1
1963	695.1	3,274.1	2,153.0	6,122.2	1,737.1	9,024.0	3,000.9	13,762.0
1964	1,309.2	5,268.5	1,833.9	8,411.6	2,875.1	13,548.9	4,601.0	21,025.0
1965	342.1	5,567.6	1,043.5	6,953.2	2,917.6	14,644.1	6,968.4	24,530.1
1966	1,004.6	6,865.2	1,348.5	9,218.2	3,720.9	18,342.6	7,802.8	29,866.3
1967	469.9	4,316.9	1,450.9	6,237.6	3,681.4	17,639.5	8,191.0	29,511.8
Coal Mining								
1962	971.7	12,727.7	4,722.6	18,422.0	10,514.2	62,653.4	13,595.1	86,762.6
1963	1,055.7	10,224.9	3,884.3	15,164.9	10,404.9	61,036.8	14,100.0	85,541.6
1964	1,404.2	10,077.6	2,083.1	13,564.9	10,547.8	57,753.2	15,473.1	83,774.1
1965	1,127.7	18,576.0	1,936.2	21,639.9	9,925.2	60,195.9	16,096.4	86,217.5
1966	2,623.1	20,429.9	4,828.2	27,881.2	11,121.7	59,547.8	17,363.3	88,032.8
1967	525.9	21,648.7	4,001.1	26,175.8	11,310.1	64,979.0	17,246.9	93,536.0
Non-metallic Mining (Excluding Clays)								
1962	27.6	151.7	54.2	233.4	451.9	1,991.4	291.3	2,734.5
1963	39.7	365.5	8.2	413.5	458.8	1,992.2	217.1	2,668.1
1964	41.1	185.8	13.8	240.7	464.1	1,790.9	219.4	2,474.4
1965	19.5	295.6	12.9	328.0	458.6	1,615.0	221.2	2,294.8
1966	53.0	423.1	11.2	487.3	414.0	1,690.6	226.5	2,331.1
1967	3.7	400.0	0.2	403.8	337.8	1,667.8	204.6	2,210.2
Total*								
1962	1,527.7	18,611.6	5,705.8	25,845.1	15,188.9	80,821.0	41,150.0	137,160.0
1963	1,910.5	14,865.5	6,045.9	22,821.9	15,318.9	80,819.2	43,498.0	139,636.1
1964	3,060.7	17,093.4	3,937.0	24,091.2	16,709.7	81,980.4	46,253.7	144,943.7
1965	2,189.4	26,909.2	3,031.7	32,130.3	16,578.9	86,159.1	49,119.4	151,857.4
1966	3,919.4	31,749.4	6,646.2	42,314.9	18,461.1	91,127.2	51,570.5	161,158.8
1967	1,828.3	31,718.4	6,414.1	39,960.8	18,998.5	98,423.2	50,351.7	167,773.4

\* Excludes clay pits and quarries winning construction materials, for which these particulars are not available.  
† Depreciated book values.

No. 4. Persons Employed in Mines\*, 1962 to 1967

Year	Persons Employed on Last Full Working Day								Average Number of Persons Employed †
	Working Proprietors	Salaried Staff		Wage Earners		Total Employed			
		Above Ground	Below Ground	Above Ground	Below Ground	Males	Females	Persons	
Silver-Lead-Zinc Mining									
1962	4	659	318	1,299	2,199	4,389	90	4,479	4,826
1963	5	686	315	1,230	2,119	4,234	121	4,355	4,350
1964	11	720	340	1,273	2,212	4,424	132	4,556	4,391
1965	13	764	332	1,407	2,296	4,659	153	4,812	4,630
1966	12	732	358	1,503	2,267	4,763	109	4,872	4,815
1967	21	779	370	1,502	2,272	4,817	127	4,944	4,877
Other Metallic Mining									
1962	66	123	6	1,010	77	1,234	48	1,282	1,322
1963	70	149	12	1,185	68	1,443	41	1,484	1,510
1964	144	186	14	1,405	73	1,774	48	1,822	1,713
1965	114	190	16	1,566	91	1,911	66	1,977	1,893
1966	144	229	15	1,748	139	2,204	71	2,275	2,253
1967	139	191	21	1,975	137	2,392	71	2,463	2,385
Coal Mining									
1962	25	568	179	3,428	7,472	11,596	76	11,672	11,998
1963	27	532	176	3,253	7,457	11,366	79	11,445	11,534
1964	18	469	183	3,263	7,371	11,235	69	11,304	11,367
1965	10	476	146	3,136	8,112	11,811	69	11,880	11,678
1966†	6	442	154	3,215	8,277	12,030	64	12,094	11,983
1967	5	523	173	3,200	8,408	12,222	87	12,309	12,176
Non-metallic Mining (Excluding Clays)									
1962	122	33	...	572	7	733	1	734	813
1963	192	34	...	581	6	812	1	813	835
1964	195	36	...	560	5	792	4	796	819
1965	431	37	...	500	3	966	5	971	993
1966	775	36	...	491	4	1,302	4	1,306	1,315
1967	792	39	...	507	3	1,334	7	1,341	1,347
Total*									
1962	217	1,383	503	6,309	9,755	17,952	215	18,167	18,959
1963	294	1,401	503	6,249	9,650	17,855	242	18,097	18,229
1964	368	1,411	537	6,501	9,661	18,225	253	18,478	18,290
1965	568	1,467	494	6,609	10,502	19,347	293	19,640	19,194
1966†	937	1,439	527	6,957	10,687	20,299	248	20,547	20,366
1967	957	1,532	564	7,184	10,820	20,765	292	21,057	20,785

\* Excludes clay pits and quarries winning construction materials, which in 1967, had an average employment of 423 and 1,872 respectively.  
† For coal mining, average during whole year; for other mining, average during period of operation. Includes working proprietors, but excludes fossickers.  
‡ Revised

### No. 5. Individual Mining and Quarrying Industries: Average Number of Persons Employed\*, 1958 to 1967

Persons employed include those engaged in actual mining and quarrying operations, and in crushing and ore dressing operations carried out in treatment works situated at or near the mine or quarry.

Industry	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967
<b>Mining for Metallic Minerals</b>										
Antimony .. .. .	36	32	10	10	10	12	18	17	13	20
Bauxite .. .. .	2	2	2	2	2	3	4	5	7	4
Copper and Copper-Gold .. .. .	63	44	71	92	112	196	219	251	316	317
Gold .. .. .	136	31	78	87	71	59	60	29	36	27
Iron Oxide .. .. .	8	16	17	15	16	14	14	20	24	20
Manganese .. .. .	40	66	37	23	30	17	14	13	4	5
Mineral Sands .. .. .	718	621	665	688	947	1,032	1,116	1,282	1,538	1,647
Silver-Lead-Zinc .. .. .	6,234	5,607	5,357	5,186	4,826	4,350	4,391	4,630	4,815	4,877
Tin .. .. .	152	171	156	161	133	175	268	270	304	327
Tungsten .. .. .	...	2	2	2	...	...	...	...	3	17
Other Metallic Minerals .. .. .	3	6	2	1	1	2	...	6	8	1
Total .. .. .	7,392	6,598	6,397	6,267	6,148	5,860	6,104	6,523	7,068	7,262
<b>Mining for Fuel Minerals</b>										
Coal, Black .. .. .	15,463	13,445	13,279	12,512	11,998	11,534	11,367	11,678	11,983†	12,176
Total .. .. .	15,463	13,445	13,279	12,512	11,998	11,534	11,367	11,678	11,983†	12,176
<b>Mining for Non-metallic Minerals</b>										
Asbestos .. .. .	43	51	38	39	38	40	46	37	33	38
Barite .. .. .	5	1	2	2	3	4	4	3	2	2
Clays—										
Brick and Tile Clay and Shale .. .. .	288	316	314	306	287	298	266	271	274	291
Other Clay and Shale .. .. .	163	149	150	148	119	121	129	117	128	132
Diatomite .. .. .	8	9	8	10	12	11	10	5	4	4
Dolomite .. .. .	10	12	8	10	13	12	7	6	5	4
Felspar (including Cornish Stone) .. .. .	19	16	12	17	14	19	22	17	11	10
Gypsum .. .. .	37	33	28	31	33	31	31	28	18	21
Limestone (including Sea Shells) .. .. .	351	328	337	374	361	371	365	367	348	339
Magnesite .. .. .	101	79	90	121	102	100	50	45	27	30
Talcs (including Steatite, Chlorite, and Pyrophyllite) .. .. .	8	11	14	13	15	17	17	14	13	13
Other Non-metallic Minerals .. .. .	101	127	127	193	222	230	267	471	854	886
Total .. .. .	1,134	1,132	1,128	1,264	1,219	1,254	1,214	1,381	1,717	1,770
<b>Quarrying for Construction Materials</b>										
Dimension Stone .. .. .	201	210	200	244	202	243	203	189	159	135
Sand and Gravel .. .. .	518	595	624	575	607	578	601	623	610	990
Crushed and Broken Stone .. .. .	565	683	823	936	967	1,023	1,115	1,310	1,053	639
Other (Unprocessed Materials) .. .. .									91	108
Total .. .. .	1,284	1,488	1,647	1,755	1,776	1,844	1,919	2,122	1,913	1,872
<b>All Mining and Quarrying Industries</b>										
Total .. .. .	25,273	22,663	22,451	21,798	21,141	20,492	20,604	21,704	22,681†	23,080

\* For coal mining, average during whole year; for other mining, average during period of operation. Includes working proprietors, but excludes fossickers (estimated at 786 in 1967) and employees of Main Roads Department and Municipal and Shire Councils winning road materials (estimated at 844 in 1967).

† Revised.

**No. 6. Individual Mining and Quarrying Industries: Value of Output, 1958 to 1967**

Industry	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967
	\$ thousand									
Mining for Metallic Minerals										
Antimony .. .. .	176	164	38	40	25	27	147	21	43	54
Bauxite .. .. .	2	7	6	4	9	13	19	19	31	18
Copper and Copper-Gold .. .. .	30	49	30	37	53	60	179	1,156	5,032	7,126
Gold .. .. .	204	15	38	24	14	11	22	6	8	4
Iron Oxide .. .. .	24	34	73	103	100	80	84	172	247	171
Manganese .. .. .	52	91	59	39	26	30	10	10	1	1
Mineral Sands .. .. .	5,920	5,328	5,547	6,236	6,387	11,124	11,407	15,953	19,141	22,736
Silver-Lead-Zinc .. .. .	38,186	41,893	43,858	35,413	35,110	54,487	87,990	98,061	81,405	73,820
Tin .. .. .	380	302	385	341	422	509	1,945	3,535	3,941	4,269
Tungsten .. .. .	...	...	...	...	...	...	...	...	...	11
Other Metallic Minerals .. .. .	2	1	1	2	1	1	...	36	8	...
Total .. .. .	44,975	47,885	50,035	42,239	42,147	66,342	101,803	118,967	109,857	108,210
Mining for Fuel Minerals										
Coal, Black .. .. .	79,958	74,873	85,354	90,225	94,068*	90,838	97,252	112,103	117,626	126,446
Total .. .. .	79,958	74,873	85,354	90,225	94,068*	90,838	97,252	112,103	117,626	126,446
Mining for Non-metallic Minerals										
Asbestos .. .. .	138	133	213	173	191	206	218	136	93	107
Barite .. .. .	20	...	...	...	2	12	9	7	5	13
Clays—										
Brick and Tile Clay and Shale .. .. .	1,298	1,564	1,760	1,578	1,619	2,094	2,206	2,394	2,304	2,500
Other Clay and Shale .. .. .	444	441	523	619	600	586	602	646	675	760
Diatomite .. .. .	26	35	31	33	29	21	24	12	13	15
Dolomite .. .. .	36	49	44	42	44	42	64	43	88	145
Felspar (including Cornish Stone) .. .. .	58	58	57	71	67	87	94	86	69	49
Gypsum .. .. .	342	411	402	398	275	256	253	298	216	204
Limestone (including Sea Shells) .. .. .	2,264	1,907	2,084	2,592	2,540	2,832	3,048	3,297	3,213	3,322
Magnesite .. .. .	566	507	519	762	550	467	282	257	192	243
Talcs (including Steatite, Chlorite, and Pyrophyllite) .. .. .	12	15	19	28	26	23	29	22	21	33
Other Non-Metallic Minerals .. .. .	272	488	367	421	528	584	741	1,031	1,555	1,948
Total .. .. .	5,476	5,608	6,019	6,717	6,470	7,210	7,570	8,229	8,443	9,338
Quarrying for Construction Materials										
Dimension Stone .. .. .	574	643	648	917	771	1,065	1,137	886	682	576
Sand and Gravel .. .. .	3,488	3,432	4,868	3,888	4,149	5,766	7,596	8,024	7,682	8,954
Crushed and Broken Stone .. .. .	8,800	10,161	12,750	12,726	12,822	14,130	17,940	19,463	{ 13,791	16 036
Other (Unprocessed Materials) .. .. .										
Total .. .. .	12,862	14,236	18,265	17,531	17,742	20,961	26,674	28,372	27,826	31,935
All Mining and Quarrying Industries										
Total .. .. .	143,272	142,603	159,674	156,713	160,427	185,351	233,299	267,672	263,751	275,929

\* Not strictly comparable with earlier years because of a revised method of valuation at certain mines (which increased values for 1962 by approximately \$4,000,000).



No. 7. Minerals Produced: Quantity, Value, and Contents, 1962 to 1967

Quantities and values of minerals produced are recorded in the form (i.e., as ores, concentrates, etc.) in which the material leaves the mine or treatment works situated at or near the mine. Actual production is recorded except where, as indicated by footnote, sales are considered the more appropriate basis. The assayed gross contents, as shown in this table, are re-assembled in Table 9 to show the total estimated "mine production" of each metal or element contained in metallic minerals of all kinds.

Mineral				Unit of Quantity	Quantity						Value (\$)					
					1962	1963	1964	1965	1966	1967	1962	1963	1964	1965	1966	1967
Metallic Minerals																
Antimony Concentrates*	..	..	ton	99	114	414	55	150	152	24,890	26,768	147,184	20,526	42,625	53,994	
Antimony Content	..	..	ton	66	74	273	35	98	91							
Bauxite	..	..	ton	5,225	7,352	10,907	10,843	17,906	10,567	9,144	12,866	19,100	18,976	31,335	18,492	
Alumina Content	..	..	ton	1,991	2,801	4,156	4,131	6,822	4,026							
Beryllium Ore*	..	..	ton	9.7	12.7	30.5	26.0	39.0	44.0	3,748	3,226	8,054	6,236	10,934	17,030	
Beryllium Oxide Content	..	..	ton	1.3	1.6	3.9	3.3	4.9	5.5							
Bismuth Concentrates	..	..	lb.	...	...	...	...	1,082	...	...	...	...	...	1,900	...	
Bismuth Content	..	..	lb.	...	...	...	...	650	...							
Copper Ore*	..	..	ton	32	...	3	62	117	525	726	...	434	2,386	6,290	18,336	
Copper Content	..	..	ton	3	...	1	5	12	34							
Silver Content	..	..	oz. fine	61	...	60	185	144	161							
Gold Content	..	..	oz. fine	...	...	...	5	2	18							
Copper Concentrates	..	..	ton	642	...	1,028	83,240	26,788	35,731	63,430	...	132,560	1,081,484	4,937,177	6,559,175	
Copper Content	..	..	ton	143	...	213	1,880	5,952	7,658							
Gold Content	..	..	oz. fine	302	...	...	...	...	...							
Silver Content	..	..	oz. fine	6,370	...	4,600	46,614	147,334	195,684							
Copper Precipitates*	..	..	ton	136	152	119	135	145	173	51,796	60,136	45,958	71,824	88,870	117,912	
Copper Content	..	..	ton	107	118	91	107	111	134							
Gold Ore	..	..	ton	...	...	...	...	...	6	...	...	...	...	...	11	
Gold Content	..	..	oz. fine	...	...	...	...	...	3							
Silver Content	..	..	oz. fine	...	...	...	...	...	5							
Gold: Other Forms†	..	..	oz.	488	394	838	170	238	186	13,748	11,216	21,840	5,548	8,008	5,451	
Gold Content	..	..	oz. fine	432	321	649	144	175	173							
Silver Content	..	..	oz. fine	35	33	36	11	16	8							
Platinum Content	..	..	oz.	...	...	...	...	12.6	...							
Osmiridium Content	..	..	oz.	...	...	...	...	0.5	...							
Ilmenite Concentrates*	..	..	ton	4,288	5,975	6,198	8,158	11,710	11,356	13,546	17,644	18,224	23,094	29,384	23,317	
Titanium Dioxide Content	..	..	ton	1,930	2,689	2,789	3,671	5,271	5,109							

\* Despatches from the mine (or sales), as distinct from production.  
† Bullion, alluvial, retorted gold, etc. The value shown includes subsidy received under the (Commonwealth) Gold-mining Industry Assistance Act.

No. 7. Minerals Produced: Quantity, Value, and Contents, 1962 to 1967 (continued)

Mineral	Unit of Quantity	Quantity						Value (\$)					
		1962	1963	1964	1965	1966	1967	1962	1963	1964	1965	1966	1967
Metallic Minerals (continued)													
Iron Oxide—													
For Gas Purification .. ..	ton	634	1,182	293	273	650	99	6,644	10,764	3,594	3,868	7,123	1,386
For Cement Manufacture* ..	ton	17,160	11,813	13,482	19,655	19,430	18,243	85,854	60,806	65,744	137,548	147,378	144,068
For Coal Washing* .. ..	ton	1,715	1,825	2,869	5,019	11,565	5,447	7,718	8,212	14,344	30,114	92,006	28,506
Lead Concentrates .. ..	ton	384,535	429,944	384,536	384,973	365,798	364,045	28,200,604	41,637,112	61,090,912	68,861,646	55,987,018	50,986,464
Lead Content .. ..	ton	289,090	324,461	292,431	292,221	276,182	271,317						
Silver Content .. ..	oz. fine	9,643,454	11,058,747	10,262,744	10,200,376	9,716,915	9,473,171						
Gold Content .. ..	oz. fine	8,902	9,485	8,456	8,192	7,508	7,979						
Antimony Content .. ..	ton	808	933	843	909	873	810						
Cadmium Content .. ..	ton	72	88	74	69	61	63						
Copper Content .. ..	ton	3,095	3,320	2,947	2,776	2,665	2,959						
Sulphur Content .. ..	ton	57,848	64,695	57,777	57,732	54,771	53,580						
Zinc Content .. ..	ton	17,257	18,530	14,984	14,677	13,973	14,525						
Lead Concentrates from Slime Dumps*	ton	...	...	396	...	...	...	...	...	11,022	...	...	...
Lead Content .. ..	ton	...	...	38	...	...	...						
Silver Content .. ..	oz. fine	...	...	7,162	...	...	...						
Lead-Zinc Middlings* .. ..	ton	...	...	...	...	10,967	14,685	...	...	...	...	266,200	1,290,401
Lead Content .. ..	ton	...	...	...	...	1,919	5,195						
Silver Content .. ..	oz. fine	...	...	...	...	222,684	476,410						
Zinc Content .. ..	ton	...	...	...	...	2,980	1,325						
Antimony Content .. ..	ton	...	...	...	...	...	29						
Cadmium Content .. ..	ton	...	...	...	...	...	11						
Copper Content .. ..	ton	...	...	...	...	...	84						
Gold Content .. ..	oz. fine	...	...	...	...	...	681						
Sulphur Content .. ..	ton	...	...	...	...	...	2,206						
Lead Slag* .. ..	ton	...	...	63	...	14	79	...	...	1,406	...	343	3,100
Lead Content .. ..	ton	...	...	7	...	2	9						
Silver Content .. ..	oz. fine	...	...	425	...	165	66						
Lithium .. ..	ton	28.3	20.4	...	...	...	...	1,080	860	...	...	...	...
Lithium Oxide Content .. ..	ton	2.3	1.4	...	...	...	...						
Manganese Ore*—													
Battery Grade .. ..	ton	583	624	237	...	...	...	26,420	30,064	6,172	...	...	...
Manganese Dioxide Content ..	ton	424	467	153	...	...	...						
Metallurgical Grade .. ..	ton	...	...	...	41	...	...	...	...	...	1,030	...	...
Manganese Content .. ..	ton	...	...	...	27	...	...						
Other Grades .. ..	ton	...	...	99	253	30	29	...	...	3,512	8,728	830	940
Manganese Dioxide Content ..	ton	...	...	72	181	22	21						

\* Despatches from the mine (or sales) as distinct from production.

**No. 7. Minerals Produced: Quantity, Value, and Contents, 1962 to 1967** (continued)

Mineral				Unit of Quantity	Quantity						Value (\$)					
					1962	1963	1964	1965	1966	1967	1962	1963	1964	1965	1966	1967
Metallic Minerals (continued)																
Molybdenite Concentrates* .. ..	lb.	...	...	...	37,830	8,844	...	...	...	...	...	35,754	5,624	...		
Molybdenum Sulphide Content .. ..	lb.	...	...	...	35,940	5,549	...	...	...	...	...	...	...	...		
Monazite Concentrates* .. ..	ton	145	515	666	601	465	494	9,726	42,968	58,788	59,980	53,367	71,880	...		
Monazite Content .. ..	ton	136	471	599	546	395	434	...	...	...	...	...	...	...		
Platinum Concentrates* .. ..	oz.	3.0	6.0	...	...	...	...	170	280	...	...	...	...	...		
Platinum Content .. ..	oz.	2.0	4.0	...	...	...	...	...	...	...	...	...	...	...		
Pyrite Concentrates .. ..	ton	4,130	...	...	...	...	...	179,402†	...	...	...	...	...	...		
Sulphur Content .. ..	ton	2,012	...	...	...	...	...	...	...	...	...	...	...	...		
Pyrite in Tailings* .. ..	ton	...	...	3,280	458	...	...	...	...	3,280	572	...	...	...		
Sulphur Content .. ..	ton	...	...	886	137	...	...	...	...	...	...	...	...	...		
Rutile Concentrates .. ..	ton	80,171	135,149	131,549	161,828	172,531	184,390	4,293,456	8,241,072	8,521,774	11,065,246	12,066,837	13,644,146	...		
Titanium Dioxide Content .. ..	ton	77,227	129,931	126,319	155,292	166,093	177,013	...	...	...	...	...	...	...		
Silver Concentrates* .. ..	ton	78	...	150	...	...	...	6,278	...	6,600	...	...	...	...		
Silver Content .. ..	oz. fine	10,303	...	16,500	...	...	...	...	...	...	...	...	...	...		
Copper Content .. ..	ton	4	...	...	...	...	...	...	...	...	...	...	...	...		
Silver-Lead Ore* .. ..	ton	328	1,573	10,009	6,418	494	1,095	7,274	29,162	198,600	154,810‡	12,962	25,338	...		
Silver Content .. ..	oz. fine	6,560	27,131	132,875	47,743	6,339	12,347	...	...	...	...	...	...	...		
Lead Content .. ..	ton	51	180	1,272	516	62	148	...	...	...	...	...	...	...		
Zinc Content .. ..	ton	...	...	387	96	...	88	...	...	...	...	...	...	...		
Silver-Lead Slimes* .. ..	ton	...	...	...	240	3,384	7,081	...	...	...	5,780	46,051	73,059	...		
Silver Content .. ..	oz. fine	...	...	...	1,117	51,698	106,079	...	...	...	...	...	...	...		
Lead Content .. ..	ton	...	...	...	23	401	800	...	...	...	...	...	...	...		
Zinc Content .. ..	ton	...	...	...	...	369	792	...	...	...	...	...	...	...		
Copper Content .. ..	ton	...	...	...	1	...	...	...	...	...	...	...	...	...		
Silver-Lead-Zinc-Copper Ore* .. ..	ton	...	...	...	1,600	2,098	803	...	...	...	53,642	39,846	15,150	...		
Silver Content .. ..	oz. fine	...	...	...	12,523	16,855	11,055	...	...	...	...	...	...	...		
Lead Content .. ..	ton	...	...	...	263	257	114	...	...	...	...	...	...	...		
Zinc Content .. ..	ton	...	...	...	450	389	188	...	...	...	...	...	...	...		
Copper Content .. ..	ton	...	...	...	48	132	39	...	...	...	...	...	...	...		
Gold Content .. ..	oz. fine	...	...	...	...	...	10	...	...	...	...	...	...	...		
Tin Concentrates* .. ..	ton	293	352	1,036	2,325	2,625	2,669	422,468	509,078	1,945,470	3,535,482	3,941,336	4,269,894	...		
Tin Content .. ..	ton	212	250	671	1,124	1,367	1,569	...	...	...	...	...	...	...		

\* Despatches from the mine (or sales), as distinct from production.

† Includes bounty payments made in respect of the previous year's production.

MINING

# No. 7. Minerals Produced: Quantity, Value, and Contents, 1962 to 1967 (continued)

Mineral				Unit of Quantity	Quantity						Value (\$)					
					1962	1963	1964	1965	1966	1967	1962	1963	1964	1965	1966	1967
Metallic Minerals (continued)																
Tungsten Concentrates*—																
Scheelite Concentrates .. ..				lb.	...	...	...	...	677	1,249	...	...	...	...	258	1,006
Tungstic Oxide Content .. ..				lb.	...	...	...	...	389	830	...	...	...	...	...	...
Wolfram Concentrates .. ..				lb.	...	...	...	...	...	10,310	...	...	...	...	...	8,933
Tungstic Oxide Content .. ..				lb.	...	...	...	...	...	6,984	...	...	...	...	...	...
Zinc Concentrates .. ..				ton	428,282	465,158	453,232	482,438	478,983	524,271	6,652,914	12,820,502	26,678,556	28,984,254	24,509,004	21,331,226
Zinc Content .. ..				ton	227,606	247,107	240,630	255,713	251,708	274,642						
Lead Content .. ..				ton	3,240	3,821	3,206	3,639	3,978	4,242						
Sulphur Content .. ..				ton	136,933	148,017	144,218	153,809	155,541	163,221						
Silver Content.. ..				oz. fine	262,396	338,947	310,410	327,231	350,421	368,367						
Cadmium Content .. ..				ton	848	947	899	926	943	976						
Copper Content .. ..				ton	396	426	378	395	370	469						
Gold Content .. ..				oz. fine	1,598	1,589	1,464	1,299	1,393	1,772						
Cobalt Content .. ..				ton	76	86	73	90	84	98						
Manganese Content .. ..				ton	5,646	6,746	6,156	6,173	6,130	5,847						
Zinc Concentrates from Slime Dumps ..				ton	...	...	...	...	11,498	14,485	...	...	...	...	543,533	525,817
Zinc Content .. ..				ton	...	...	...	...	5,772	7,112						
Lead Content .. ..				ton	...	...	...	...	243	348						
Silver Content.. ..				oz. fine	...	...	...	...	31,799	70,796						
Gold Content .. ..				oz. fine	...	...	...	...	...	80						
Cadmium Content .. ..				ton	...	...	...	...	...	29						
Cobalt Content .. ..				ton	...	...	...	...	...	2						
Copper Content .. ..				ton	...	...	...	...	...	14						
Manganese Content .. ..				ton	...	...	...	...	...	245						
Sulphur Content .. ..				ton	...	...	...	...	...	4,331						
Zircon Concentrates .. ..				ton	91,298	119,586	118,294	156,763	153,795	176,304	1,692,772	2,270,404	2,217,900	3,988,756	5,598,030	7,182,152
Zircon Content .. ..				ton	89,947	117,520	117,044	155,255	152,257	174,502						
Zircon-Rutile Concentrates* .. ..				ton	72,567	93,640	97,204	100,106	107,189	86,584	377,348	551,996	590,008	815,706	1,393,457	1,805,300
Zircon Content .. ..				ton	32,267	41,668	35,817	35,615	35,513	31,446						
Titanium Dioxide Content .. ..				ton	21,196	28,608	31,555	33,532	37,776	28, 1						
Total Value, Metallic Minerals .. ..				...	...	...	...	...	...	...	42,151,156	66,345,136	101,811,036	118,972,990	109,867,726	108,222,484
Fuel Minerals																
Coal, Black (Bituminous) .. ..				ton	19,030,418	18,940,206	20,699,056	24,129,996	25,469,722	26,812,988	94,067,658†	90,837,794	97,251,656	112,103,282	117,625,823	126,445,918
Total Value, Fuel Minerals .. ..				...	...	...	...	...	...	...	94,067,658†	90,837,794	97,251,656	112,103,282	117,625,823	126,445,918

\* Despatches from the mine (or sales), as distinct from production.

**No. 7. Minerals Produced: Quantity, Value, and Contents, 1962 to 1967** (continued)

Mineral	Unit of Quantity	Quantity						Value (\$)					
		1962	1963	1964	1965	1966	1967	1962	1963	1964	1965	1966	1967
Non-metallic Minerals													
Asbestos, Chrysotile*—													
Fibre .. .. .	ton	770	834	1,034	643	441	454	190,510	205,956	217,960	135,632	92,681	106,662
Fines .. .. .	ton	4	4	6	2	...	6	100	88	118	32	...	142
Barite .. .. .	ton	435	1,540	1,299	876	633	1,600	1,580	11,586	9,092	6,572	4,747	12,800
Chlorite .. .. .	ton	351	320	331	335	262	555	5,622	5,130	5,310	5,282	4,762	10,319
Clays—													
Kaolin and Ball Clay—													
For Refractories .. .. .	ton	11,130	6,594	11,115	13,858	11,202	24,747	49,124	28,538	42,734	62,434	50,009	105,882
For Pottery .. .. .	ton	3,795	5,736	6,584	7,520	4,690	4,350	20,822	29,058	38,338	38,086	30,676	43,938
For Other Purposes .. .. .	ton	6,147	14,831	4,390	6,230	5,444	6,461	43,036	61,554	34,012	52,542	30,713	59,176
Other Pottery Clay and Shale .. .. .	ton	...	...	3,063	265	180	2,340	...	...	20,860	1,444	162	2,840
Brick Clay and Shale .. .. .	ton	1,966,322	1,987,381	2,059,007	2,144,521	2,208,657	2,544,527	1,486,098	1,934,644	2,003,516	2,242,916	2,255,373	2,603,900
Cement Clay and Shale .. .. .	ton	274,351	189,974	208,678	180,788	153,724	85,490	134,632	122,154	126,350	128,252	138,358	106,659
Fireclay .. .. .	ton	120,753	104,578	102,298	94,177	116,015	102,150	231,706	283,924	261,016	257,210	240,545	238,304
Fuller's Earth .. .. .	ton	272	70	45	89	...	75	2,182	600	450	900	...	750
Moulder's Clay .. .. .	ton	176	142	101	185	167	142	3,080	2,486	1,706	3,126	2,831	1,410
Stoneware Clay .. .. .	ton	101,187	94,849	123,626	105,659	95,156	96,594	125,442	113,000	147,158	140,520	120,297	137,340
Terra Cotta Clay—													
For Roofing Tiles .. .. .	ton	101,513	78,698	111,963	88,956	89,342	41,713	113,772	96,000	125,164	107,524	111,358	66,396
For Other Purposes .. .. .	ton	4,005	9,951	2,800	1,352	2,147	55,736	2,600	9,388	2,460	1,240	2,420	55,649
Diatomite .. .. .	ton	4,318	2,837	3,261	1,639	1,718	2,183	28,654	20,984	24,150	12,192	12,661	14,905
Dolomite*† .. .. .	ton	4,919	4,481	5,545	4,345	5,042	8,237	43,540	39,270	56,840	42,864	87,974	145,024
Felspar (including Cornish Stone) .. .. .	ton	5,925	6,690	6,136	5,822	4,237	2,510	61,942	81,778	84,140	78,072	55,876	30,858
Fluorspar .. .. .	ton	...	15	...	...	...	...	...	180	...	...	...	...
Garnet .. .. .	ton	...	...	...	...	...	455	...	...	...	...	...	1,823
Gems—													
Opal† .. .. .	...	...	...	...	...	...	...	200,000	250,000	290,000	480,000	967,000	1,150,000
Sapphire .. .. .	...	...	...	...	...	...	...	62,258	48,686	113,040	234,746	304,033	304,300
Rhodonite .. .. .	...	...	...	...	...	...	...	1,478	3,348	1,872	19,902	13,522	18,972
Gypsum—													
Washed .. .. .	ton	30,737	32,999	37,361	42,906	44,497	40,618	147,638	164,002	167,518	251,114	214,575	199,255
Unwashed .. .. .	ton	41,065	29,248	27,223	15,465	465	1,886	127,052	92,220	85,894	46,678	1,797	4,706
Total, Gypsum .. .. .	ton	71,802	62,247	64,584	58,371	44,962	42,504	274,690	256,222	253,412	297,792	216,372	203,961
Limestone† .. .. .	ton	2,427,711	2,524,253	2,700,285	2,801,181	2,690,531	2,702,306	2,498,398	2,796,710	2,991,710	3,251,938	3,164,299	3,240,385

\* Despatches from the mine (or sales) as distinct from production.

† Excludes material used directly as a building or road material—see "Construction Materials" on page 15.

‡ Estimated.

# **No. 7. Minerals Produced: Quantity, Value, and Contents, 1962 to 1967** (continued)

Mineral	Unit of Quantity	Quantity						Value (\$)					
		1962	1963	1964	1965	1966	1967	1962	1963	1964	1965	1966	1967
Non-metallic Minerals (continued)													
Loam, for Foundry Moulding .. ..	ton	16,259	16,174	14,227	15,580	9,506	...	23,852	23,712	20,792	24,160	16,700	...
Magnesite, Crude .. ..	ton	61,672	49,909	29,281	24,500	18,915	22,207	549,860	466,612	282,010	257,212	192,436	243,000
Pebbles, for Grinding .. ..	ton	116	32	12	...	...	...	1,064	284	106	...	...	...
Perlite .. ..	ton	100	...	...	...	...	...	200	...	...	...	...	...
Pyrophyllite .. ..	ton	931	837	381	...	...	...	13,930	11,020	8,066	...	...	...
Quartz* .. ..	ton	1,779	2,624	2,175	3,505	3,194	4,597	12,144	18,948	16,604	29,144	27,951	37,656
Quartzite*—													
For Ferro Alloys .. ..	ton	10,852	10,547	6,384	941	10,556	14,308	39,690	44,478	25,450	2,534	21,112	22,971
For Silica Bricks .. ..	ton	27,936	20,621	25,371	29,080	16,006	24,750	112,778	97,774	167,026	167,458	97,030	138,063
For Other Purposes .. ..	ton	45	29	100	44	...	284	194	124	360	168	...	3,142
Sand*—													
Foundry Sand .. ..	ton	10,858	32,570	73,290	76,109	78,192	88,852	14,950	34,510	63,932	57,808	61,111	76,419
Glass Sand .. ..	ton	101,949	86,505	113,404	102,649	102,961	89,898	103,276	88,194	113,308	91,254	102,101	140,205
Other Sand .. ..	ton	1,988	1,865	235	389	7,408	63,976	20,058	2,278	938	1,468	9,451	42,721
Sandstone*—													
Grinding Stones .. ..	ton	42	106	57	36	41	27	1,186	2,100	1,200	1,014	1,414	378
For Foundry Sand .. ..	ton	2,640	1,643	1,727	2,221	1,869	1,791	6,864	5,090	5,786	7,440	6,260	6,780
For Other Purposes .. ..	ton	494	1,200	1,104	680	673	649	2,104	4,850	4,444	2,720	3,266	3,244
Sea Shells .. ..	ton	4,260	3,999	4,918	3,652	4,434	4,087	41,804	38,374	63,198	45,420	48,890	50,870
Serpentine, for Refractories .. ..	ton	1,065	605	604	151	...	...	2,506	1,420	1,440	474	...	...
Siderite .. ..	ton	10	...	...	...	...	...	450	...	...	...	...	...
Shale Ash .. ..	ton	37	50	36	53	42	43	252	296	240	372	287	301
Sillimanite .. ..	ton	1,278	1,738	1,098	1,004	1,846	479	19,170	29,732	19,418	17,590	34,111	8,596
Talc (including Steatite) .. ..	ton	720	864	1,366	1,683	1,403	2,135	6,318	7,188	15,680	16,326	15,379	23,021
Total Value, Non-metallic Minerals ..		...	...	...	...	...	...	6,553,916	7,278,268	7,661,406	8,323,780	8,544,168	9,459,762

\* Excludes material used directly as a building or road material. See "Construction Materials" on next page.

# No. 7. Minerals Produced: Quantity, Value, and Contents, 1962 to 1967 (continued)

Mineral	Unit of Quantity	Quantity						Value (\$)					
		1962	1963	1964	1965	1966	1967	1962	1963	1964	1965	1966	1967
Construction Materials*													
Dimension Stone (Building, Ornamental, and Monumental)†—													
Granite .. .. .	ton	888	1,669	775	1,596	1,779	1,581	18,930	27,734	3,148	14,018	22,440	32,735
Marble (incl. Limestone) .. .. .	ton	1,165	1,200	2,101	3,024	6,781	3,326	109,014	154,000	125,474	112,544	180,301	85,718
Sandstone (incl. Quartzite) .. .. .	ton	41,668	39,914	45,119	46,317	34,483	38,951	503,162	551,510	571,038	569,166	473,116	455,191
Other .. .. .	ton	...	25	67	186	1,290	379	...	1,300	1,980	4,440	4,840	5,043
Crushed and Broken Stone‡—													
Basalt (incl. Dolerite)¶ .. .. .	ton	3,321,039	3,306,045	3,656,536	6,002,428	4,436,835	4,380,059	5,403,958	5,997,160	7,050,710	10,471,424	7,602,577	8,414,228
Breccia .. .. .	ton												
Granite .. .. .	ton												
Limestone (incl. Marble) .. .. .	ton												
Porphyry .. .. .	ton												
Sandstone (incl. Quartzite) .. .. .	ton												
Other .. .. .	ton	††	††	††	††	861,531	1,008,379	††	††	††	††	1,051,276	1,528,164
Gravel§ .. .. .	ton	1,491,879	1,853,105	2,013,324	2,255,973	2,435,086	2,292,671	2,344,744	3,088,356	3,538,694	3,757,004	4,059,156	4,685,924
Sand   .. .. .	ton	2,957,097	3,670,468	5,126,509	4,965,110	4,179,262	4,525,174	1,988,596	2,606,314	3,959,614	4,166,928	3,520,569	4,290,870
Other Materials (Unprocessed)** .. .. .	ton	15,523,902**	18,309,055**	20,294,197**	18,712,145**	19,027,920	21,731,681	5,816,046	7,105,064	10,179,206	7,744,784	5,670,497	6,373,037
Total Value, Construction Materials .. .. .	...	...	...	...	...	...	...	17,654,460	20,889,856	26,574,446	28,271,732	27,713,740	31,801,316
All Mining and Quarrying													
Total Value of Output .. .. .	...	...	...	...	...	...	...	160,427,190	185,351,054	233,298,544	267,671,784	263,751,457	275,929,480

MINING

- \* A new classification of "Construction Materials" was introduced in 1966. Figures for earlier years have been re-classified on the new basis, but some of them are not fully comparable with figures for 1966.
- † Comprises "rough" and "dressed" stone, quarried in blocks and/or slabs.
- ‡ Includes fine-crushed rock, but excludes gravel.
- ¶ From 1965, includes material for prepared road base (included in "Other Materials (unprocessed)" for earlier years).
- § Washed, screened and/or crushed gravel (including river gravel).
- || Comprises "processed" and "unprocessed" sand. Excludes sand for industrial use.
- \*\* Includes "unprocessed" materials (ridge gravel, shale, loam, etc.) used for roads and/or for fill, and, in the years 1962 to 1965, "Crushed and Broken Stone—Other" and some other processed materials.
- †† Not available separately—see note \*\*.

**No. 8. Crushed and Broken Stone\* Produced: Quantity and Value Classified by  
Rock Type and Size, 1967**

Rock Type	Over 12 inch		Over 2 inch to 12 inch		$\frac{1}{8}$ inch to 2 inch		Under $\frac{1}{8}$ inch		Prepared Road Base and Fine Crushed Rock	
	Tons	\$	Tons	\$	Tons	\$	Tons	\$	Tons	\$
Basalt (including Dolerite) .. ..	209,389	335,266	162,775	417,865	2,045,173	4,689,773	269,468	337,539	1,693,254	2,633,785
Breccia .. .. .	...	...	...	...	872,061	1,959,119	...	...	1,070,388	1,480,895
Granite .. .. .	9,253	14,376	320	3,840	230,501	761,473	6,429	7,915	317,448	492,044
Limestone (including Marble) ..	5,767	28,337	614	875	28,392	52,952	616	659	6,520	8,476
Porphyry .. .. .	...	...	13,200	28,332	206,589	616,949	8,427	8,928	...	...
Sandstone (including Quartzite) ..	120,663	145,859	56,910	152,812	33,334	78,231	22,464	35,293	55,887	53,041
Other .. .. .	108,224	126,386	52,417	144,456	547,028	968,905	90,751	102,831	209,959	185,586
Total, All Types .. .. .	453,296	650,224	286,236	748,180	3,963,078	9,127,402	398,155	493,165	3,353,456	4,853,827

\* Excludes gravel.



No. 9. Contents of Metallic Minerals Produced, 1958 to 1967

The contents of metallic minerals produced in New South Wales, as set out in Table 7, are re-assembled below to show the "mine production" of each metal or element for which the ores, concentrates, etc., are to be further treated. These totals represent gross contents, as determined by assay, and make no allowance for losses in smelting and refining. The quantities shown are therefore, in general, greater than those actually recoverable. The dissection between contents "Available for Recovery in Australia" and "Destined for Export in Ores, etc." is based on preliminary advices received from producers or ore buyers.

Mineral in which Contained	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967		
	Total	Total	Total	Total	Total	Total	Total	Total	Total	Available for Recovery in Australia	Destined for Export in Ores, etc.	Total
Alumina (tons)												
Bauxite .. .. .	633	1,648	1,386	929	1,991	2,801	4,156	4,131	6,822	4,026	...	4,026
Total Alumina .. ..	633	1,648	1,386	929	1,991	2,801	4,156	4,131	6,822	4,026	...	4,026
Antimony (tons)												
Antimony Concentrates .. ..	661	626	151	116	66	74	273	35	98	...	91	91
Antimony Ore .. .. .	30	1	2	...	...	...	...	...	...	...	...	...
Lead Concentrates .. .. .	664	652	632	563	808	933	843	909	873	633	177	810
Lead-Zinc Middlings .. .. .	...	...	...	...	...	...	...	...	...	29	...	29
Total Antimony .. ..	1,355	1,279	784	679	874	1,007	1,116	944	971	662	268	930
Beryllium Oxide (tons)												
Beryllium Ore .. .. .	1.2	5.6	1.2	4.9	1.3	1.6	3.9	3.3	4.9	...	5.5	5.5
Total Beryllium Oxide ..	1.2	5.6	1.2	4.9	1.3	1.6	3.9	3.3	4.9	...	5.5	5.5
Bismuth (lb.)												
Bismuth Concentrates .. ..	...	...	...	...	...	...	...	...	650	...	...	...
Total Bismuth .. .. .	...	...	...	...	...	...	...	...	650	...	...	...
Cadmium (tons)												
Lead Concentrates .. .. .	74	72	68	55	72	88	74	69	61	50	13	63
Lead-Zinc-Middlings .. .. .	...	...	...	...	...	...	...	...	...	11	...	11
Zinc Concentrates .. .. .	738	729	826	790	848	947	899	926	943	584	392	976
Zinc Concentrates from Slime Dumps	...	...	...	...	...	...	...	...	...	29	...	29
Total Cadmium .. ..	812	801	893	845	920	1,035	973	995	1,005	674	405	1,079
Cobalt (tons)												
Zinc Concentrates .. .. .	70	60	65	65	76	86	73	90	84	51	47	98
Zinc Concentrates from Slime Dumps	...	...	...	...	...	...	...	...	...	2	...	2
Total Cobalt .. .. .	70	60	65	65	76	86	73	90	84	53	47	100

**No. 9. Contents of Metallic Minerals Produced, 1958 to 1967 (continued)**

Mineral in which Contained	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967		
	Total	Total	Total	Total	Total	Total	Total	Total	Total	Available for Recovery in Australia	Destined for Export in Ores, etc.	Total
<b>Copper (tons)</b>												
Copper Ore .. .. .	2	4	8	21	3	...	1	5	12	34	...	34
Copper Concentrates .. .. .	986	877	828	896	143	...	213	1,880	5,952	7,658	...	7,658
Copper Precipitates .. .. .	66	83	63	57	107	118	91	107	111	134	...	134
Lead Concentrates .. .. .	2,507	2,323	2,134	2,045	3,095	3,320	2,947	2,776	2,665	2,205	755	2,959
Lead-Zinc Middlings .. .. .	...	...	...	...	...	...	...	...	...	84	...	84
Silver-Lead-Zinc-Copper Ore .. .. .	...	...	...	...	...	...	...	48	132	7	32	39
Silver-Lead Slimes .. .. .	...	...	...	...	...	...	...	1	...	...	...	...
Silver Concentrates .. .. .	...	...	...	9	4	...	...	...	...	...	...	...
Zinc Concentrates .. .. .	462	440	540	482	396	426	378	395	370	268	201	469
Zinc Concentrates from Slime Dumps .. .. .	...	...	...	...	...	...	...	...	...	14	...	14
<b>Total Copper .. .. .</b>	<b>4,023</b>	<b>3,728</b>	<b>3,572</b>	<b>3,510</b>	<b>3,747</b>	<b>3,863</b>	<b>3,630</b>	<b>5,212</b>	<b>9,242</b>	<b>10,404</b>	<b>988</b>	<b>11,392</b>
<b>Gold (oz. fine)</b>												
Copper Ore .. .. .	...	...	...	...	...	...	...	5	2	18	...	18
Copper Concentrates .. .. .	3,197	2,699	3,066	2,556	302	...	...	...	...	...	...	...
Gold Ore .. .. .	...	...	...	...	...	...	...	...	...	3	...	3
Gold Concentrates .. .. .	319	...	228	385	...	...	...	...	...	...	...	...
Gold: Other Forms* .. .. .	4,678	461	939	368	432	321	649	144	175	173	...	173
Lead Concentrates .. .. .	8,571	8,396	7,679	7,088	8,902	9,485	8,456	8,192	7,508	6,220	1,759	7,979
Lead-Zinc Middlings .. .. .	...	...	...	...	...	...	...	...	...	681	...	681
Silver-Lead-Zinc-Copper Ore .. .. .	15	...	...	...	...	...	...	...	...	...	10	10
Zinc Concentrates .. .. .	1,929	1,719	1,716	1,637	1,598	1,589	1,464	1,299	1,393	1,160	612	1,772
Zinc Concentrates from Slime Dumps .. .. .	...	...	...	...	...	...	...	...	...	80	...	80
<b>Total Gold .. .. .</b>	<b>18,709</b>	<b>13,275</b>	<b>13,628</b>	<b>12,034</b>	<b>11,234</b>	<b>11,395</b>	<b>10,569</b>	<b>9,640</b>	<b>9,078</b>	<b>8,335</b>	<b>2,381</b>	<b>10,716</b>
<b>Lead (tons)</b>												
Lead Concentrates .. .. .	241,521	242,323	231,658	207,716	289,090	324,461	292,431	292,221	276,182	206,508	64,809	271,317
Lead Concentrates from Slime Dumps .. .. .	...	...	...	...	...	...	38	...	...	...	...	...
Lead-Zinc Middlings .. .. .	...	...	...	...	...	...	...	...	1,919	5,195	...	5,195
Lead Slag .. .. .	...	...	...	...	...	...	7	...	2	9	...	9
Silver-Lead Ore .. .. .	729	33	44	42	51	180	1,272	516	62	148	...	148
Silver-Lead-Zinc-Copper Ore .. .. .	...	...	...	...	...	...	...	263	257	21	93	114
Silver-Lead Slimes .. .. .	...	...	...	...	...	...	...	23	401	800	...	800
Zinc Concentrates .. .. .	4,646	4,093	4,166	3,921	3,240	3,821	3,206	3,639	3,978	2,549	1,693	4,242
Zinc Concentrates from Slime Dumps .. .. .	...	...	...	...	...	...	...	...	243	348	...	348
<b>Total Lead .. .. .</b>	<b>246,896</b>	<b>246,449</b>	<b>235,868</b>	<b>211,679</b>	<b>292,381</b>	<b>328,462</b>	<b>296,954</b>	<b>296,662</b>	<b>283,044</b>	<b>215,578</b>	<b>66,595</b>	<b>282,173</b>

\* Bullion, alluvial, retorted gold, etc.

# No. 9. Contents of Metallic Minerals Produced, 1958 to 1967 (continued)

Mineral in which Contained	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967		
	Total	Total	Total	Total	Total	Total	Total	Total	Total	Available for Recovery in Australia	Destined for Export in Ores, etc.	Total
<b>Lithium Oxide (tons)</b>												
Lithium .. .. .	...	...	1.0	1.9	2.3	1.4	...	...	...	...	...	...
Total Lithium .. .. .	...	...	1.0	1.9	2.3	1.4	...	...	...	...	...	...
<b>Manganese (tons)</b>												
Zinc Concentrates .. .. .	...	...	...	...	...	...	...	...	6,130	3,726	2,121	5,847
Zinc Concentrates from Slime Dumps .. .. .	...	...	...	...	...	...	...	...	...	245	...	245
Total Manganese .. .. .	...	...	...	...	...	...	...	...	6,130	3,971	2,121	6,092
<b>Manganese Dioxide (MnO<sub>2</sub>) (tons)</b>												
Manganese Ore, Non-Battery Grade .. .. .	...	...	...	...	...	...	...	...	22	21	...	21
Total Manganese Dioxide .. .. .	...	...	...	...	...	...	...	...	22	21	...	21
<b>Molybdenum (lb. Molybdenum Sulphide)</b>												
Molybdenite Concentrates .. .. .	...	...	...	2,070	...	...	...	35,940	5,549	...	...	...
Total Molybdenum .. .. .	...	...	...	2,070	...	...	...	35,940	5,549	...	...	...
<b>Monazite (tons)</b>												
Zinc Concentrates .. .. .	...	...	...	...	...	...	...	...	434	*	*	395
Total Monazite .. .. .	...	...	...	...	...	...	...	...	434	*	*	395
<b>Osmiridium (oz.)</b>												
Gold: Other Forms .. .. .	...	...	...	...	...	...	...	...	0.5	...	...	...
Platinum Concentrates .. .. .	1.3	...	0.2	...	...	...	...	...	...	...	...	...
Total Osmiridium .. .. .	1.3	...	0.2	...	...	...	...	...	0.5	...	...	...

\* Not available—mainly "Destined for Export".

### No. 9. Contents of Metallic Minerals Produced, 1958 to 1967 (continued)

Mineral in which Contained	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967		
	Total	Total	Total	Total	Total	Total	Total	Total	Total	Available for Recovery in Australia	Destined for Export in Ores, etc.	Total
<b>Platinum (oz.)</b>												
Gold: Other Forms .. ..	...	...	0.2	...	...	...	...	...	12.6	...	...	...
Platinum Concentrates .. ..	21.6	...	4.1	2.0	2.0	4.0	...	...	...	...	...	...
<b>Total Platinum .. ..</b>	<b>21.6</b>	<b>...</b>	<b>4.3</b>	<b>2.0</b>	<b>2.0</b>	<b>4.0</b>	<b>...</b>	<b>...</b>	<b>12.6</b>	<b>...</b>	<b>...</b>	<b>...</b>
<b>Silver (oz. fine)</b>												
Copper Ore .. ..	...	10	7	582	61	...	60	185	144	161	...	161
Copper Concentrates .. ..	64,736	56,217	58,760	56,659	6,370	...	4,600	46,614	147,334	195,684	...	195,684
Gold Concentrates .. ..	336	...	150	98	...	...	...	...	...	...	...	...
Gold Ore .. ..	...	...	...	...	...	...	...	...	...	5	...	5
Gold: Other Forms .. ..	256	47	121	43	35	33	36	11	16	8	...	8
Lead Concentrates .. ..	8,509,147	8,169,920	8,002,023	7,050,980	9,643,454	11,058,747	10,262,744	10,200,376	9,716,915	7,899,584	1,573,587	9,473,171
Lead Concentrates from Slime Dumps .. ..	...	...	...	...	...	...	7,162	...	...	...	...	...
Lead-Zinc Middlings .. ..	...	...	...	...	...	...	...	...	222,684	476,410	...	476,410
Lead Slag .. ..	...	...	...	...	...	...	425	...	165	66	...	66
Silver Concentrates .. ..	...	...	...	25,520	10,303	...	16,500	...	...	...	...	...
Silver-Lead Ore .. ..	58,653	5,109	6,527	4,465	6,560	27,131	132,875	47,743	6,339	12,347	...	12,347
Silver-Lead-Zinc-Copper Ore .. ..	...	...	...	...	...	...	...	12,523	16,855	1,454	9,601	11,055
Silver-Lead Slimes .. ..	...	...	...	...	...	...	...	1,117	51,698	106,079	...	106,079
Zinc Concentrates .. ..	359,165	323,900	330,301	309,610	262,396	338,947	310,410	327,231	350,421	248,688	119,679	368,367
Zinc Concentrates from Slime Dumps .. ..	...	...	...	...	...	...	...	...	31,799	70,796	...	70,796
<b>Total Silver .. ..</b>	<b>8,992,293</b>	<b>8,555,203</b>	<b>8,397,889</b>	<b>7,447,957</b>	<b>9,929,179</b>	<b>11,424,858</b>	<b>10,734,812</b>	<b>10,635,800</b>	<b>10,544,370</b>	<b>9,011,282</b>	<b>1,702,867</b>	<b>10,714,149</b>
<b>Sulphur (tons)</b>												
Lead Concentrates .. ..	49,559	48,042	46,715	42,667	57,848	64,695	57,777	57,732	54,771	41,430	12,150	53,580
Lead-Zinc Middlings .. ..	...	...	...	...	...	...	...	...	...	2,206	...	2,206
Pyrite Concentrates .. ..	17,715	16,577	15,637	14,949	2,012	...	...	...	...	...	...	...
Pyrite in Tailings .. ..	...	...	...	...	...	...	886	137	...	...	...	...
Zinc Concentrates .. ..	130,462	124,273	142,006	137,043	136,933	148,017	144,218	153,809	155,541	94,868	68,353	163,221
Zinc Concentrates from Slime Dumps .. ..	...	...	...	...	...	...	...	...	...	4,331	...	4,331
<b>Total Sulphur .. ..</b>	<b>197,736</b>	<b>188,892</b>	<b>204,358</b>	<b>194,659</b>	<b>196,793</b>	<b>212,712</b>	<b>202,881</b>	<b>211,678</b>	<b>210,312</b>	<b>142,835</b>	<b>80,503</b>	<b>223,338</b>

No. 9. Contents of Metallic Minerals Produced, 1958 to 1967 (continued)

Mineral in which Contained	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967		
	Total	Total	Total	Total	Total	Total	Total	Total	Total	Available for Recovery in Australia	Destined for Export in Ores, etc.	Total
Tin (tons)												
Tin Concentrates .. .. .	239	174	223	173	212	250	671	1,124	1,367	820	749	1,569
Total Tin .. .. .	239	174	223	173	212	250	671	1,124	1,367	820	749	1,569
Titanium (tons Titanium Dioxide)												
Ilmenite Concentrates .. ..	59	111	537	905	1,930	2,689	2,789	3,671	5,271	*	*	5,109
Rutile Concentrates .. .. .	44,915	44,792	52,262	64,284	77,227	129,931	126,319	155,292	166,093	*	*	177,013
Zircon-Rutile Concentrates ..	11,609	16,132	17,105	21,278	21,196	28,608	31,555	33,532	37,776	*	*	28,401
Total Titanium Dioxide ..	56,583	61,035	69,904	86,467	100,353	161,228	160,663	192,495	209,140	*	*	210,523
Tungsten (lb. Tungstic Oxide)												
Scheelite Concentrates .. ..	2,504	1,007	463	123	...	...	...	...	389	830	...	830
Wolfram Concentrates .. ..	...	...	...	109	...	...	...	...	...	6,984	...	6,984
Total Tungsten .. .. .	2,504	1,007	463	232	...	...	...	...	389	7,814	...	7,814
Zinc (tons)												
Lead Concentrates .. .. .	...	...	...	12,256	17,257	18,530	14,984	14,677	13,973	11,595	2,930	14,525
Lead-Zinc Middlings .. .. .	...	...	...	...	...	...	...	...	2,980	1,325	...	1,325
Silver-Lead Ore .. .. .	...	...	...	...	...	...	387	96	...	88	...	88
Silver-Lead Slimes .. .. .	...	...	...	...	...	...	...	...	369	792	...	792
Silver-Lead-Zinc-Copper Ore ..	...	...	...	...	...	...	...	450	389	30	158	188
Zinc Concentrates .. .. .	211,667	202,675	234,170	225,578	227,606	247,107	240,630	255,713	251,708	158,276	116,366	274,642
Zinc Concentrates from Slime Dumps	...	...	...	...	...	...	...	...	5,772	7,112	...	7,112
Total Zinc .. .. .	211,667	202,675	234,170	237,834	244,863	265,637	256,001	270,936	275,191	179,218	119,454	298,672
Zircon (tons)												
Zircon Concentrates .. .. .	32,230	71,156	65,764	98,421	89,947	117,520	117,044	155,255	152,257	*	*	174,502
Zircon-Rutile Concentrates ..	11,949	16,607	17,610	22,801	32,267	41,668	35,817	35,615	35,513	*	*	31,446
Total Zircon .. .. .	44,179	87,763	83,374	121,222	122,214	159,188	152,861	190,870	187,770	*	*	205,948

\* Not available—mainly "Destined for Export".

No. 10. Mine Production\* of Principal Metals and Sulphur, 1957 to 1967

Year	Alumina	Antimony	Cadmium	Cobalt	Copper	Gold	Lead
	Tons	Tons	Tons	Tons	Tons	Oz. fine	Tons
1957	1,354	1,208	924	68	4,382	31,043	266,928
1958	633	1,355	812	70	4,023	18,709	246,896
1959	1,648	1,279	801	60	3,728	13,275	246,449
1960	1,386	784	893	65	3,572	13,628	235,868
1961	929	679	845	65	3,510	12,034	211,679
1962	1,991	874	920	76	3,747	11,234	292,381
1963	2,801	1,007	1,035	86	3,863	11,395	328,462
1964	4,156	1,116	973	73	3,630	10,569	296,954
1965	4,131	944	995	90	5,212	9,640	296,662
1966	6,822	971	1,005	84	9,242	9,078	283,044
1967	4,026	930	1,079	100	11,392	10,716	282,173

Year	Silver	Sulphur	Tin	Titanium †	Tungsten	Zinc	Zircon
	Oz. fine	Tons	Tons	Tons TiO <sub>2</sub>	lb. WO <sub>3</sub>	Tons	Tons
1957	9,969,102	207,604	211	97,159	3,388	241,509	72,883
1958	8,992,293	197,736	239	56,583	2,504	211,667	44,179
1959	8,555,203	198,892	174	61,035	1,007	202,675	87,763
1960	8,397,889	204,358	223	69,904	463	234,170	83,374
1961	7,447,957	194,659	173	86,467	232	237,834	121,222
1962	9,929,179	196,793	212	100,353	...	244,863	122,214
1963	11,424,585	212,712	250	161,228	...	265,637	159,188
1964	10,734,812	202,881	671	160,663	...	256,001	152,861
1965	10,635,800	211,678	1,124	192,495	...	270,936	190,870
1966	10,544,370	210,312	1,367	209,140	389	275,191	187,770
1967	10,714,149	223,338	1,569	210,523	7,814	298,672	205,948

\* These are gross contents of metallic minerals produced, as determined by assay, and make no allowance for losses in smelting and refining. The quantities shown are therefore, in general, greater than those actually recoverable.  
† Titanium dioxide content of rutile, ilmenite, and zircon-rutile concentrates.

No. 11. London Metal Prices\*, 1939 to 1967

Year	Copper (Electrolytic)	Silver	Lead	Zinc (Virgin)	Tin
	£. s. d. per ton	s. d. per oz. fine	£. s. d. per ton		
1939	49 16 10	1 10.02	15 13 2	14 13 3	226 5 8
1957	219 9 10	6 6.93	96 13 4	81 12 4	754 16 10
1958	197 7 8	6 4.21	72 16 1	65 18 1	735 0 8
1959	237 15 2	6 6.82	70 15 9	82 2 6	785 4 2
1960	245 19 2	6 7.38	72 2 11	89 6 4	796 12 8
1961	229 11 5	6 8.25	64 4 2	77 15 1	887 18 11
1962	233 19 8	7 7.56	56 6 5	67 9 3	896 12 8
1963	234 2 10	9 2.13	63 8 7	76 15 4	909 17 4
1964	351 1 4	9 3.92	101 0 9	117 17 9	1,236 18 3
1965	468 1 4	9 3.58	115 2 7	112 19 5	1,411 18 1
1966	554 19 11	9 3.81	95 3 6	102 0 1	1,296 16 3
1967	418 0 10	9 11.91	83 16 5	100 10 11	1,222 18 11

\* Spot prices, average of buyers' and sellers' quotes. The prices are annual averages, quoted in sterling.

No. 12. Prices of Metals in Australia\*, 1939 to 1967

Year	Copper (Electrolytic)	Lead	Zinc (Electrolytic)	Tin
	\$ per ton			
1939†	127.75	41.75	40.25	598.00
1957	681.82	232.57	206.92	1,983.33
1958	616.95	173.62	181.56	1,990.45
1959	624.66	200.00	210.89	2,116.12
1960	649.08	200.00	226.31	2,083.92
1961	613.23	198.68	204.18	2,335.75
1962	610.00	164.38	212.25	2,328.90
1963	610.00	169.18	218.28	2,358.50
1964	656.13	239.08	302.42	3,190.12
1965	734.06	281.30	300.00	3,629.82
1966	957.93	249.32	281.75	3,346.97
1967	1,048.19	217.50	276.43	3,113.72

\* Annual average home consumption selling prices. The bases are—copper: ex-works, Port Kembla; lead: f.o.b. Port Pirie; zinc: f.o.b. Risdon until June, 1962, c.i.f. Sydney until March, 1966 (average for 1962 is on the basis of c.i.f. Sydney), and free on wharf Sydney from April, 1966 (average for 1966 is on the basis of free on wharf Sydney); tin: delivered Sydney (ex-works, Sydney, before 1954). Price controls, imposed on these metals in December, 1939, were removed from lead, zinc, and tin in April, 1953, and from copper in October, 1954.  
† At 31st December.

**No. 13. Coal Produced, 1957 to 1967**

Year	Underground Mines				Open Cut Mines				Total, All Mines			
	Northern District	Southern District	Western District	Total, N.S.W.	Northern District	Southern District	Western District	Total, N.S.W.	Northern District	Southern District	Western District	Total, N.S.W.
	Thousand tons											
1957	8,480	4,556	1,626	14,662	728	...	...	728	9,208	4,556	1,626	15,390
1958	8,864	4,693	1,574	15,131	720	...	...	720	9,584	4,693	1,574	15,851
1959	8,904	4,812	1,562	15,278	434	...	...	434	9,338	4,812	1,562	15,712
1960	9,669	5,735	1,578	16,982	755	...	...	755	10,424	5,735	1,578	17,737
1961	9,545	7,058	1,586	18,189	832	...	...	832	10,377	7,058	1,586	19,021
1962	9,224	7,454	1,518	18,196	834	...	...	834	10,058	7,454	1,518	19,030
1963	8,882	7,817	1,639	18,338	602	...	...	602	9,484	7,817	1,639	18,940
1964	9,994	8,395	1,594	19,983	716	...	...	716	10,710	8,395	1,594	20,699
1965	11,872	9,676	1,687	23,235	895	...	...	895	12,767	9,676	1,687	24,130
1966	12,629	10,091	1,579	24,299	1,171	...	...	1,171	13,800	10,091	1,579	25,470
1967	13,366	10,787	1,537	25,689	1,124	...	...	1,124	14,489	10,787	1,537	26,813

**No. 14. Underground Coal Mines: Mechanically Cut and Loaded, 1957 to 1967**

Year	Coal Mechanically Cut				Coal Mechanically Loaded			
	Northern District	Southern District	Western District	All Districts	Northern District	Southern District	Western District	All Districts
	Proportion per cent. of Total Production							
1957	67.4	83.8	74.4	73.3	72.6	84.6	81.8	77.3
1958	75.5	83.4	88.3	79.3	78.6	83.9	91.8	81.6
1959	86.4	88.5	89.5	87.4	87.8	88.3	90.4	88.2
1960	87.6	91.0	89.7	88.9	93.2	91.5	90.2	92.4
1961	90.0	94.1	92.5	91.8	95.5	95.4	93.1	95.2
1962	92.0	95.0	94.8	93.5	96.4	96.1	98.7	96.5
1963	91.7	95.8	95.1	93.8	97.1	96.4	98.5	96.9
1964	93.4	96.1	96.1	94.8	98.1	96.5	97.4	97.4
1965	93.8	96.5	96.6	95.0	97.9	96.8	96.7	97.4
1966	95.3	96.7	98.1	96.0	98.2	96.9	99.2	97.7
1967	97.3	97.3	98.8	97.4	99.8	97.6	100.0	98.9

**No. 15. Manshifts Worked and Lost in Coal Mines, 1957 to 1967**

The following statistics were compiled by the Joint Coal Board

Year	Manshifts Worked				Manshifts Lost				Manshifts Possible			
	Northern District	Southern District	Western District	All Districts	Northern District	Southern District	Western District	All Districts	Northern District	Southern District	Western District	All Districts
	Thousand Manshifts											
Underground Mines												
1957	2,362	991	322	3,675	346	166	37	549	2,708	1,157	359	4,224
1958	2,184	1,013	284	3,481	275	149	25	449	2,459	1,162	309	3,930
1959	1,870	983	263	3,116	181	139	24	344	2,051	1,122	287	3,460
1960	1,849	1,048	254	3,151	181	144	21	346	2,030	1,192	275	3,497
1961	1,571	1,108	238	2,917	114	132	20	266	1,685	1,240	258	3,183
1962	1,465	1,087	216	2,768	108	127	18	253	1,573	1,214	234	3,021
1963	1,323	1,081	202	2,606	90	115	16	221	1,413	1,196	218	2,827
1964	1,328	1,124	179	2,631	80	128	13	221	1,408	1,252	192	2,852
1965	1,387	1,213	159	2,759	86	144	10	240	1,473	1,357	169	2,999
1966	1,388	1,253	140	2,781	90	159	9	258	1,478	1,412	149	3,039
1967	1,420	1,337	126	2,883	84	149	8	241	1,504	1,486	134	3,124
Open Cut Mines												
1957	65	...	...	65	4	...	...	4	69	...	...	69
1958	70	...	...	70	3	...	...	3	73	...	...	73
1959	35	...	...	35	2	...	...	2	37	...	...	37
1960	34	...	...	34	1	...	...	1	35	...	...	35
1961	37	...	...	37	1	...	...	1	38	...	...	38
1962	37	...	...	37	2	...	...	2	39	...	...	39
1963	32	...	...	32	1	...	...	1	33	...	...	33
1964	33	...	...	33	1	...	...	1	34	...	...	34
1965	44	...	...	44	1	...	...	1	45	...	...	45
1966	56	...	...	56	2	...	...	2	58	...	...	58
1967	60	...	...	60	2	...	...	2	62	...	...	62

No. 16. Coal Produced per Manshift Worked, 1957 to 1967

The following statistics were compiled by the Joint Coal Board. They exclude mines in course of development prior to commencement of coal production.

Year	Underground Mines								Open Cut Mines			
	Production per Manshift worked at Coal Face				Production per Manshift worked by All Persons Employed				Production per Manshift worked by All Persons Employed			
	Northern District	Southern District	Western District	All Districts	Northern District	Southern District	Western District	All Districts	Northern District	Southern District	Western District	All Districts
	Tons											
1957	11.89	15.64	15.17	13.19	3.59	4.60	5.05	3.99	11.11	...	...	11.11
1958	13.51	15.74	17.40	14.48	4.06	4.63	5.55	4.35	11.31	...	...	11.31
1959	18.02	18.04	18.47	18.07	4.76	4.89	5.95	4.90	12.47	...	...	12.47
1960	20.12	21.67	20.32	20.64	5.23	5.47	6.20	5.39	22.15	...	...	22.15
1961	25.17	24.41	22.44	24.61	6.07	6.37	6.65	6.23	22.29	...	...	22.29
1962	26.27	26.18	22.98	25.92	6.29	6.86	7.03	6.57	22.42	...	...	22.42
1963	27.52	27.27	25.93	27.26	6.71	7.23	8.11	7.04	18.86	...	...	18.86
1964	31.82	28.14	32.03	30.18	7.53	7.47	8.89	7.60	21.48	...	...	21.48
1965	35.68	29.91	37.35	33.12	8.56	7.98	10.60	8.42	20.54	...	...	20.54
1966	39.07	28.98	42.80	34.30	9.10	8.06	11.24	8.74	21.06	...	...	21.06
1967	44.47	29.36	44.69	36.57	9.41	8.07	12.17	8.91	18.88	...	...	18.88

No. 17. Coal Mining: Persons Employed, 1957 to 1967  
Underground and Open Cut Mines

Year	Number Employed at End of Year				Average Number Employed during Whole Year			
	Northern District	Southern District	Western District	Total, N.S.W.	Northern District	Southern District	Western District	Total, N.S.W.
1957	10,328	4,465	1,223	16,016	10,830	4,411	1,381	16,622
1958	8,835	4,359	1,155	14,349	9,826	4,453	1,184	15,463
1959	7,976	4,218	1,071	13,265	8,037	4,311	1,097	13,445
1960	7,399	4,465	1,042	12,906	7,812	4,414	1,053	13,279
1961	6,233	4,661	985	11,879	6,791	4,696	1,025	12,512
1962	6,043	4,709	920	11,672	6,373	4,680	945	11,998
1963	5,809	4,801	835	11,445	5,880	4,768	886	11,534
1964	5,707	4,948	649	11,304	5,738	4,876	753	11,367
1965	5,987	5,299	594	11,880	5,870	5,157	651	11,678
1966*	6,035	5,480	579	12,094	5,982	5,410	591	11,983
1967	6,075	5,694	540	12,309	6,040	5,597	539	12,176

\* Revised.

No. 18. Coal Mining: Classification of Persons Employed, 1963 to 1967

Particulars	Number Employed at End of Year					Average Number Employed during Whole Year				
	1963	1964	1965	1966	1967	1963	1964	1965	1966	1967
Underground Mines										
Northern District—										
Below Ground .. ..	3,337	3,389	3,640	3,645	3,674	3,371	3,358	3,539	3,610	3,661
Above Ground .. ..	2,341	2,172	2,172	2,178	2,174	2,373	2,246	2,173	2,170	2,158
Total .. ..	5,678	5,561	5,812	5,823	5,848	5,744	5,604	5,712	5,780	5,819
Southern District—										
Below Ground .. ..	3,339	3,450	3,769	3,914	4,061	3,314	3,397	3,656	3,882	4,011
Above Ground .. ..	1,462	1,498	1,530	1,566	1,633	1,454	1,479	1,501	1,528	1,586
Total .. ..	4,801	4,948	5,299	5,480	5,694	4,768	4,876	5,157	5,410	5,597
Western District—										
Below Ground .. ..	529	419	375	372	346	567	475	417	376	348
Above Ground .. ..	306	230	219	207	194	319	278	234	215	191
Total .. ..	835	649	594	579	540	886	753	651	591	539
Total, N.S.W.—										
Below Ground .. ..	7,205	7,258	7,784	7,931	8,081	7,252	7,230	7,612	7,868	8,020
Above Ground .. ..	4,109	3,900	3,921	3,951	4,001	4,146	4,003	3,908	3,913	3,935
Total .. ..	11,314	11,158	11,705	11,882	12,082	11,398	11,233	11,520	11,781	11,955
Open Cut Mines										
Northern District .. ..	131	146	175	212	227	136	134	158	202	221
Southern District .. ..	...	...	...	...	...	...	...	...	...	...
Western District .. ..	...	...	...	...	...	...	...	...	...	...
Total, N.S.W. .. ..	131	146	175	212	227	136	134	158	202	221
Underground and Open Cut Mines										
Northern District .. ..	5,809	5,707	5,987	6,035	6,075	5,880	5,738	5,870	5,982	6,040
Southern District .. ..	4,801	4,948	5,299	5,480	5,694	4,768	4,876	5,157	5,410	5,597
Western District .. ..	835	649	594	579	540	886	753	651	591	539
Total, N.S.W. .. ..	11,445	11,304	11,880	12,094	12,309	11,534	11,367	11,678	11,983	12,176



**No. 19. Underground Coal Mines\* Classified according to Gross Output, 1967**

Gross Output	Northern District			Southern District			Western District			New South Wales		
	No. of Mines *	Average Number of Persons Employed during Period of Operation †	Gross Output	No. of Mines *	Average Number of Persons Employed during Period of Operation †	Gross Output	No. of Mines *	Average Number of Persons Employed during Period of Operation †	Gross Output	No. of Mines *	Average Number of Persons Employed during Period of Operation †	Gross Output
Tons			Thous. tons			Thous. tons			Thous. tons			Thous. tons
1 to 10,000	5	49	26	2	25	7	...	...	...	7	74	32
10,001 to 50,000	9	260	280	3	56	105	3	53	94	15	369	479
50,001 to 100,000	4	194	318	2	177	148	4	92	275	10	463	741
100,001 to 200,000	6	488	987	3	354	400	3	106	406	12	948	1,793
200,001 to 400,000	8	971	2,444	3	753	925	2	280	761	13	2,004	4,129
Over 400,000	15	3,721	9,311	12	4,200	9,203	...	...	...	27	7,921	18,514
Total	47	5,683	13,366	25	5,565	10,787	12	531	1,537	84	11,779	25,689

\* Excludes non-producing developmental mines.

† Excludes persons employed in non-producing developmental mines and in central screening and washing plants at rail sidings (193 in Northern District, 54 in Southern District, and 6 in Western District).

**No. 20. Production, Consumption, and Stocks of Coal in New South Wales, 1957 to 1967**

The following statistics were compiled by the Joint Coal Board.

Year	Total Production	Mine Washery Refuse, etc.	Exports*		Available for Consumption in N.S.W. †	Changes in Stocks Held in N.S.W.		Actual Consumption in N.S.W.	Stocks on Hand at End of Year
			Oversea Countries	Other Australian States		Held at Mines, in Transit, etc.	Held by Consumers		
Thousand tons									
1957	15,390	355	768	2,095	12,172	(+) 142	(+) 61	11,969	3,261
1958	15,851	614	811	1,996	12,430	(+) 423	(+) 13	11,994	3,697
1959	15,712	810	765	2,113	12,024	(—) 486	(—) 211	12,721	3,000
1960	17,737	1,009	1,554	1,868	13,306	(+) 75	(+) 108	13,123	3,183
1961	19,021	1,204	2,590	1,511	13,716	(+) 55	(+) 307	13,354	3,545
1962	19,030	1,322	2,738	1,360	13,610	(+) 524	(—) 241	13,327	3,828
1963	18,940	1,363	2,723	1,286	13,568	(—) 55	(+) 83	13,541	3,856
1964	20,699	1,557	3,655	1,266	14,221	(—) 356	(—) 30	14,606	3,470
1965	24,130	1,829	5,492	1,105	15,704	(+) 81	(+) 226	15,397	3,777
1966	25,470	2,214	6,803	901	15,552	(+) 203	(+) 126	15,223	4,106
1967	26,813	2,522	7,465	845	15,981	(—) 374	(+) 163	16,191	3,895

\* Cargo and bunker coal.

† Total production, less washery refuse discarded and coal exported.

**No. 21. Consumption of Coal in N.S.W.: Principal Consumers, 1956-57 to 1966-67**

Year ended 30th June	Factories								Govern- ment Railway Loco- motives	Total, Factories and Govern- ment Railway Loco- motives
	Electricity Generating Stations	Gas Works*	Steel Works and Coke Works*	Cement Works	Brick, Tile and Pottery Works	Glass and Glass Bottle Works	Other Factories	Total Factories		
	Thousand tons									
1957	3,787	919	3,778	343	299	134	832	10,092	1,373	11,465
1958	4,030	846	3,942	415	301	124	808	10,466	1,125	11,591
1959	4,135	829	3,986	380	321	134	827	10,612	1,009	11,621
1960	4,328	848	4,353	428	340	130	820	11,247	1,021	12,268
1961	4,369	845	5,055	440	348	135	789	11,981	980	12,961
1962	4,406	796	5,181	400	332	132	773	12,020	798	12,818
1963	4,600	727	5,303	416	333	112	780	12,271	705	12,976
1964	5,138	730	5,692	453	339	129	803	13,283	671	13,954
1965	5,213	734	6,279	554	342	92	805	14,019	636	14,655
1966	5,816	671	6,492	494	310	36	776	14,596	473	15,069
1967	6,080	612	7,203	478	241	...	822	15,436	357	15,793

\*Includes coal consumed as raw material.

**No. 22. Exports of Coal from New South Wales, 1957 to 1967**

The following statistics were compiled by the Joint Coal Board.

Year	Interstate Exports						Oversea Exports							
	Cargo Coal				Bunker Coal	Total, Inter-state	Cargo Coal						Bunker Coal	Total, Over-sea
	Victoria	South Australia	Other States	Total			New Caledonia	Japan	Korea	Argen-tina	Other	Total		
Thousand tons														
1957	943	883	97	1,923	172	2,095	182	451	85	...	38	756	12	768
1958	962	773	94	1,829	167	1,996	143	361	163	111	18	796	15	811
1959	1,046	822	73	1,941	172	2,113	145	493	22	84	19	763	2	765
1960	895	751	95	1,741	127	1,868	131	1,373	40	...	10	1,554	...	1,554
1961	817	516	77	1,410	101	1,511	72	2,387	37	...	94	2,590	...	2,590
1962	689	490	84	1,263	97	1,360	36	2,521	55	...	126	2,738	...	2,738
1963	652	447	70	1,169	117	1,286	106	2,482	69	...	66	2,723	...	2,723
1964	701	390	58	1,149	117	1,266	146	3,314	61	...	134	3,655	...	3,655
1965	602	355	54	1,011	94	1,105	239	5,092	33	...	128	5,492	...	5,492
1966	519	291	39	849	52	901	217	6,440	32	...	113	6,802	1	6,803
1967	501	280	39	820	25	845	228	7,074	34	...	129	7,465	...	7,465

**No. 23. Average Value of Coal per ton at Pit-top\*, 1939 to 1967**

Year	Northern District	Southern District	Western District	New South Wales	Year	Northern District	Southern District	Western District	New South Wales
	\$	\$	\$	\$		\$	\$	\$	\$
1939	1.25	1.44	1.07	1.27	1962	5.12	5.28	4.43	5.12
1957	5.82	5.56	5.06	5.68	1963	4.86	5.22	3.92	4.89
1958	5.61	5.50	4.74	5.48	1964	4.61	5.47	3.75	4.83
1959	5.24	5.43	4.75	5.26	1965	4.52	5.68	3.47	4.83
1960	5.19	5.59	4.81	5.27	1966	4.58	5.41	3.42	4.79
1961	5.14	5.51	4.68	5.22	1967	4.60	5.85	3.20	4.95

\* Based on value of saleable coal at pit-top (or at screens or mine washeries where these are situated at a distance from the mines). This excludes miners' coal, coal consumed at collieries, and refuse discarded at mine-washeries. Coal won by producer-consumers is also excluded, and only the actual sales from coal stocks held at grass by the Commonwealth Government have been taken to account.

**No. 24. Mining Accidents, 1957 to 1967**

Year	Number of Casualties										Rate per 1,000 Persons Employed			
	Persons Killed					Persons Injured*					Killed		Injured*	
	Coal and Shale Mining	Mineral Sands Mining	Silver-Lead-Zinc Mining	Other Mining and Quarrying	Total Killed	Coal and Shale Mining	Mineral Sands Mining	Silver-Lead-Zinc Mining	Other Mining and Quarrying	Total Injured	Coal and Shale Mining	Other Industries	Coal and Shale Mining	Other Industries
1957	13	...	8	1	22	68	40	273	16	397	0.77	0.83	4.01	30.22
1958	11	...	5	4	20	86	22	310	25	443	0.72	0.91	5.59	36.26
1959	9	...	6	5	20	73	21	315	30	439	0.67	1.22	5.44	39.71
1960	14	...	2	1	17	69	18	216	28	331	1.06	0.33	5.21	28.56
1961	8	...	3	3	14	67	16	266	35	384	0.64	0.65	5.34	34.13
1962	17	...	1	3	21	55	17	229	36	337	1.42	0.44	4.58	30.84
1963	5	...	1	4	10	59	14	228	36	337	0.43	0.56	5.12	31.03
1964	8	...	2	2	12	51	16	183	61	311	0.70	0.43	4.49	28.15
1965	16	3	1	...	20	77	42	148	45	312	1.37	0.40	6.59	23.44
1966	19	...	5	6	30	53	28	196	55	332	1.57	1.03	4.37	26.08
1967	8	...	2	5	15	58	20	166	68	312	0.66	0.64	4.76	23.29

\* For coal and shale mining, the figures relate to injuries caused by explosions or electricity and serious injuries from all other causes. For other industries, the figures relate to injuries causing incapacity for over 14 days.

**No. 25. State Revenue from Mining, 1957-58 to 1967-68**

Year ended 30th June	Royalty on Minerals				Royalty Repayments †	Net Royalty	Mining Leases	Other Receipts †	Net Receipts
	Coal	Silver, Lead, and Zinc	Gold and Other Minerals	Total Royalty					
	\$	\$	\$	\$	\$	\$	\$	\$	\$
1958	912,522	2,835,752	335,920	4,084,194	68,554	4,015,640	37,174	34,914	4,087,728
1959	918,314	352,146	226,124	1,496,584	76,270	1,420,314	41,152	24,824	1,486,290
1960	898,958	670,342	211,652	1,780,952	137,870	1,643,082	38,474	49,736	1,731,292
1961	1,067,022	1,294,940	191,198	2,553,160	39,256	2,513,904	44,638	82,520	2,641,062
1962	1,183,270	1,611,428	214,182	3,008,880	107,146	2,901,734	45,660	78,804	3,026,198
1963	1,223,356	271,308	263,806	1,758,470	124,830	1,633,640	36,858	73,314	1,743,812
1964	1,222,578	3,676,872	306,298	5,205,748	115,126	5,090,622	54,260	93,664	5,238,546
1965	1,295,230	18,417,806	344,570	20,057,606	110,834	19,946,772	63,224	109,206	20,119,202
1966	1,559,764	22,451,195	408,313	24,419,272	102,104	24,317,168	53,680	92,882	24,463,730
1967	1,772,626	14,234,668	502,654	16,509,948	182,975	16,326,973	90,968	116,569	16,534,510
1968	2,039,651	8,683,927	607,945	11,331,523	301,825	11,029,698	88,746	110,439	11,228,883

\* Royalty in regard to mining on private lands held without reservation of minerals to the Crown is collected by the Mines Department on behalf of the owner.

† Includes fees for Miner's Rights and Business Licences.

Date Due

~~29-9-69~~

DAY LOAN ONLY

